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Indian Standard

DIMENSIONS OF PANELS AND RACKS (482·6 mm SYSTEM)

UDC 621·316·342·1 : 64·38·038-218 : 006·78

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January 1981

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DIMENSIONS OF PANELS AND RACKS (482·6 mm SYSTEM)

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Indian Standard

DIMENSIONS OF PANELS AND RACKS (482·6 mm SYSTEM)

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 29 September 1980, after the draft finalized by the Electromechanical Components for Electronic Equipment Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

0.2 This standard covers panels and racks based on 482·6 mm practice. The panels and racks based on practices other than 482·6 mm will be covered in a different standard.

0.3 While preparing this standard, assistance has been derived from IEC Pub 297(1975) Dimensions of panels and racks. International Electrotechnical Commission.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard lays down dimensions of panels and racks for all applications which are based on 482·6 mm practice.

2. PANEL DIMENSIONS

2.1 The panel dimensions are given in Fig. 1 read with Table 1.

3. SLOT DETAILS

3.1 The slot details are given in Fig. 2.

4. RACK DIMENSIONS

4.1 The rack dimensions are given in Fig. 3.

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*Rules for rounding off numerical values (*revised*).

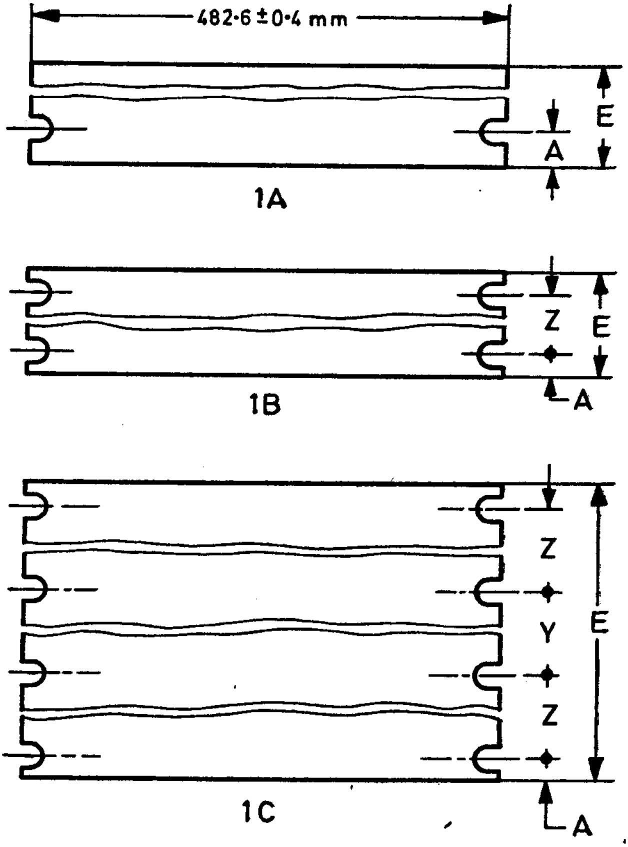


FIG. 1 PANEL DIMENSIONS

TABLE 1 PANEL DIMENSIONS

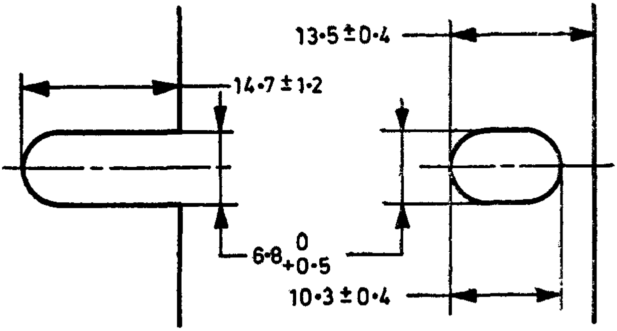
(*Clause* 2.1)

All dimensions in millimetres.

FIGURE	PANEL TYPE (*see* FIG. 4)	*A*	*E*	*Z*	*Y*
		±0·4	±0·4	±0·4	±0·4
1A	1U	5·9	43·6	—	—
	2U	37·7	88·1	—	—
1B	1U	5·9	43·6	31·8	—
	2U	5·9	88·1	76·2	—
	3U	37·7	132·5	57·15	—
	4U	37·7	177·0	101·6	—
	5U	37·7	221·5	146·1	—
	6U	37·7	265·9	190·5	—
1C	6U	37·7	265·9	57·15	76·2
	7U	37·7	310·3	88·9	57·15
	8U	37·7	354·8	101·6	76·2
	9U	37·7	399·2	101·6	120·6
	10U	37·7	443·7	101·6	165·1
	11U	37·7	488·1	133·3	146·1
	12U	37·7	532·6	133·3	190·6

NOTE 1 — The symbol U means a vertical increment of 44·45 mm.

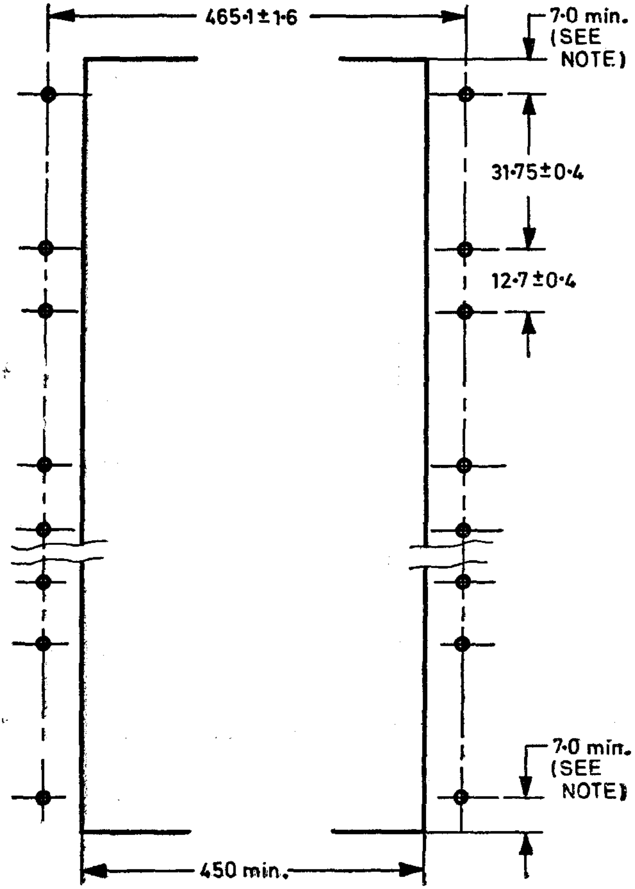
NOTE 2 — Tolerances are non-cumulative.



NOTE — Both open slots and closed slots as shown above are standard.

All dimensions in millimetres.

FIG. 2 SLOT DETAILS



NOTE — Usual practice : 7·9±0·8 mm.

All dimensions in millimetres.

FIG. 3 RACK DIMENSIONS

4.1.1 Tolerance between any two holes within a distance of 1m are ± 0·4mm.

4.1.2 Additional holes are permitted.

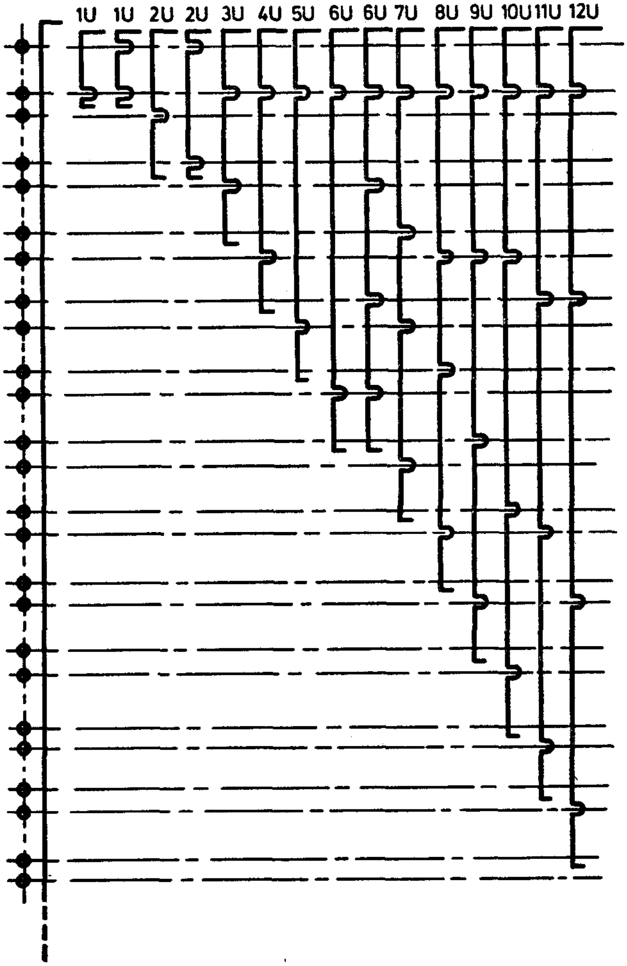


Fig. 4 Panel Types

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	*Unit*	*Symbol*
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	*Unit*	*Symbol*
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	*Unit*	*Symbol*	*Definition*
Force	newton	N	1 N = 1 kg.m/s^2
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2